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## Patent Abstracts of Japan

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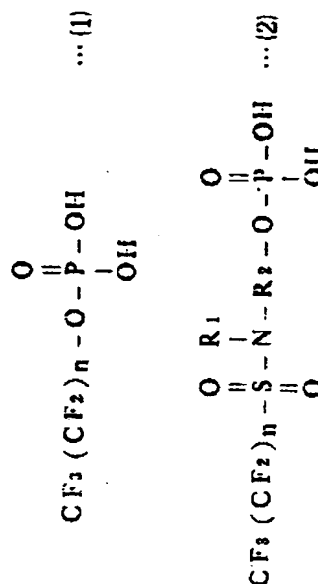
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APPLICANT : HITACHI MAXELL LTD;

INVENTOR : SAITO OSAMU;

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TITLE : MAGNETIC RECORDING MEDIUM



**ABSTRACT :** PURPOSE: To obtain a magnetic recording medium with superior durability and corrosion resistance by forming a protective layer of a specified phosphoric ester contg. fluorine on the surface of a magnetic layer contg. a metallic magnetic material as a recording element.

CONSTITUTION: A magnetic recording medium is obtd. by forming a protective layer of a phosphoric ester contg. fluorine represented by formula 1 or 2 (where n is about 4~30, R<sub>1</sub> is about 1~5C alkyl, and R<sub>2</sub> is about 1~5C alkylene) on the surface of a magnetic layer contg. a metallic magnetic material as a recording element. The amount of the phosphoric ester used is 0.01~30mg/m<sup>2</sup>. Since a phosphoric acid group at a terminal of the molecule of the phosphoric ester is firmly adsorbed on the surface of the magnetic layer, a uniform mono-molecular film is formed, so the durability and corrosion resistance of the magnetic recording medium can be highly improved.

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